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(71) Applicant (for all designated States except US): **THE REGENTS OF THE UNIVERSITY OF CALIFORNIA** [US/US]; 1111 Franklin Street, 12th Floor, Oakland, CA 94607 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CROWE, John H.** [US/US]; 1111 Cottonwood Court, Davis, CA 95616 (US). **TABLIN, Fern** [US/US]; 608 Hubble Street, Davis, CA

95616 (US). **WOLKERS, Willem F.** [NL/NL]; Riemsdijkstraats 80, NL-6701 Wageningen BC (NL). **WALKER, Naomi J.** [US/US]; 1204 Spruce Lane, Davis, CA 95616 (US). **AUH, Joong-Hyuck. TANG, Minke. LOOPER, Sheri.**

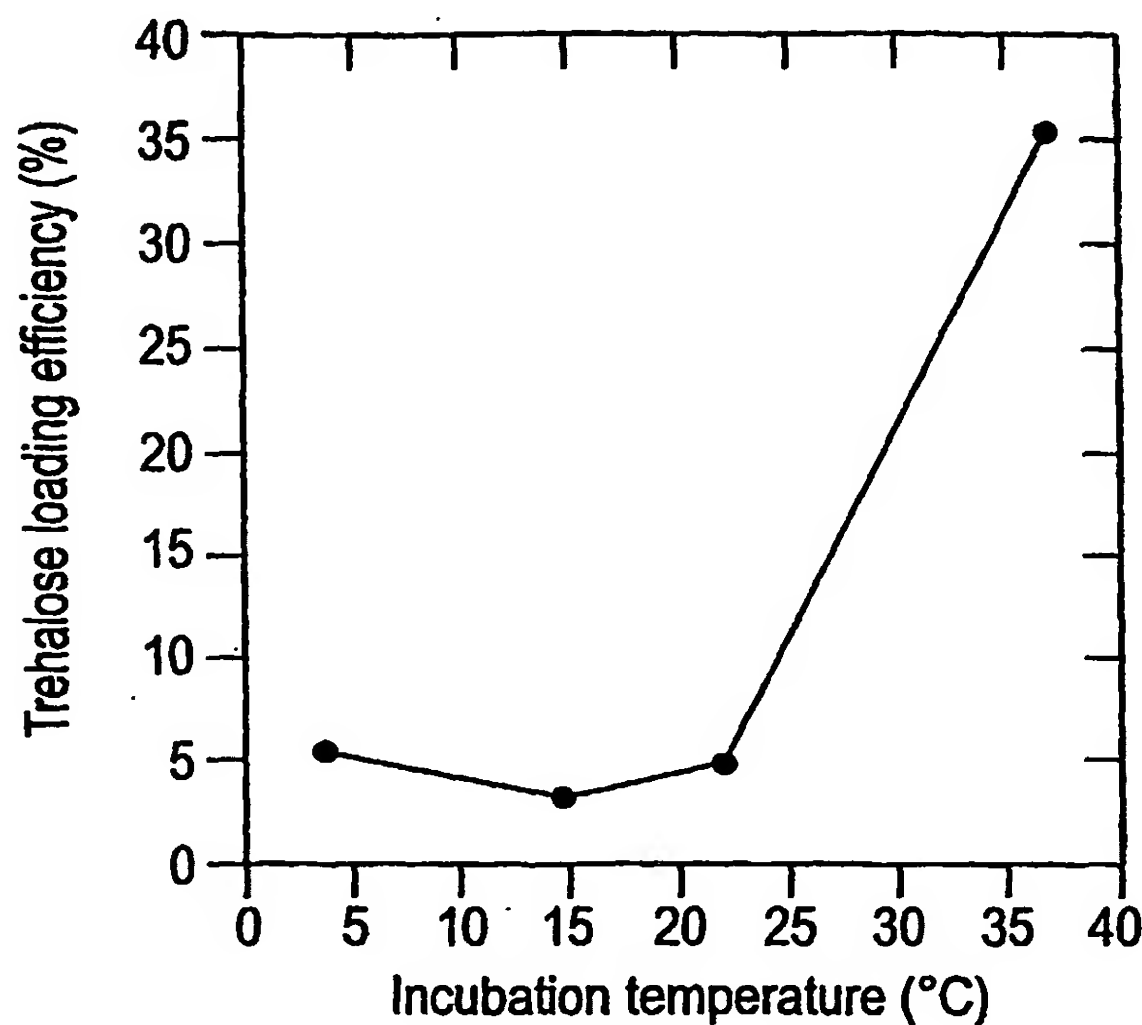
(74) Agents: **HYMAN, Laurence J. et al.**; Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, CA 94111 (US).

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(54) Title: THERAPEUTIC PLATELETS AND METHODS



(57) Abstract: The invention provides methods for loading a preservative into blood platelets comprising providing a preservative solution having a preservative, water and protein, and loading blood platelets with the preservative solution to produce preservative-loaded blood platelets having the preservative solution generally including higher glass transition temperatures than glass transition temperatures for a preservative solution having the preservative, water and no protein. A process for processing blood platelets comprising suspending blood platelets in a preservative solution at a concentration greater than about 108 platelets per ml. of preservative solution to produce preservative-loaded blood platelets, freeze-drying the preservative-loaded blood platelets, and recovering at least 75% of the freeze-dried platelets. A platelet composition comprising blood platelets loaded with a preservative

solution having a preservative, water, and protein, and generally further having higher glass transition temperatures than glass transition temperatures for blood platelets loaded with the preservative, water, but no protein.



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